

Product Data



A06624

THE LATEST IN OIL FURNACE TECHNOLOGY

The model 367RAN combines high efficiency and quiet operation with oil heating technology. The 367RAN is available in 2 sizes. Each size can be fired at 3 different rates by a simple nozzle change. Unit 367RAN105 covers input ranges from 70,000 to 105,000 Btuh. Unit 367RAN120 covers input ranges from 119,000 to 154,000 Btuh. The furnace design is a low-boy style for upflow applications where overhead space is limited.

The components of the 367RAN are the finest in the industry. The unit uses a Riello oil burner with a UTEC fan timer board.

The 367RAN is a standard part of a quality-built home. This high efficiency furnace will provide years of quality service to home builders and homeowners alike.

As with other Bryant furnaces, this model is designed to work as part of a total home comfort system which includes elements for cooling, air cleaning, humidification, ventilation, and zoning.

367RAN FEATURES/BENEFITS

Riello Oil Burner and UTEC Controls

- High quality Riello oil burner allows safe and efficient combustion of oil.
- UTEC ignition control and fan timer board provide reliable operation and easy connection of thermostat and accessory wiring.

Casing

- Made of 18-gauge painted steel for years of durability.
- Cabinet features an insulated enclosure for the burner and controls.

Insulation and Soundproofing

- Unique sound trap along with insulated walls efficiently capture most combustion noise and vibration make this unit one of the quietest on the market.
- Flue silence baffle ensures quiet operation.

Combustion Products Venting

- Rear flue outlet.
- Unit may be vented using Type L vent material and a factory-built metal or masonry chimney.
- Unit may also be sidewall vented with an approved power venter.

Adjustable Blower Speed

- 4-speed blower for precise airflow selection of heating or cooling operation.

Constant Low-Speed Blower Switch

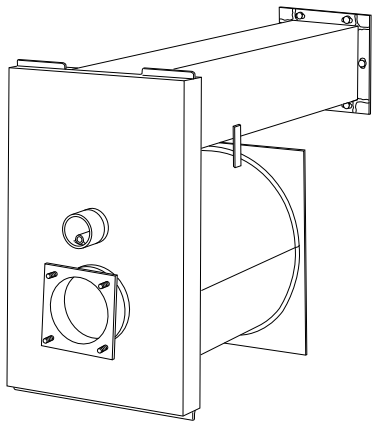
- Allows continual low-speed air circulation through the home to maximize comfort while maintaining efficiency.
- Air is constantly filtered and stagnant air is avoided.
- This option can be controlled by the homeowner.

Combustion Chamber/Heat Exchanger

- Composed mainly of stainless and aluminized steel, the unique combination combustion chamber/heat exchanger resists corrosion, overheating, and deterioration.
- Heat transfer properties make it highly efficient.
- All seams are tightly welded for leak-free operation.

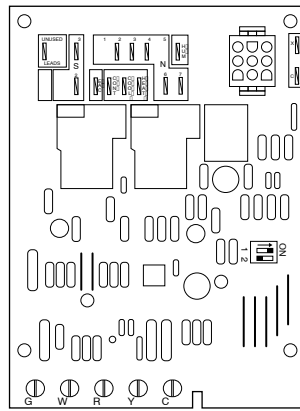
Certifications

- 367RAN unit is CSA certified.
- The efficiency is GAMA efficiency rating certified.



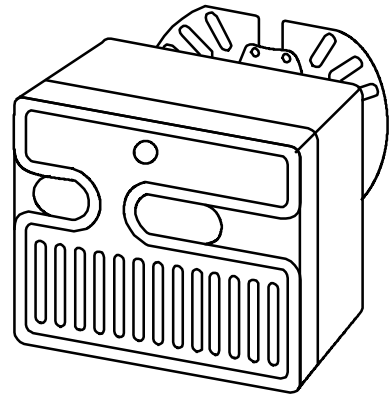
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COMBUSTION CHAMBER/
HEAT EXCHANGER



A96370

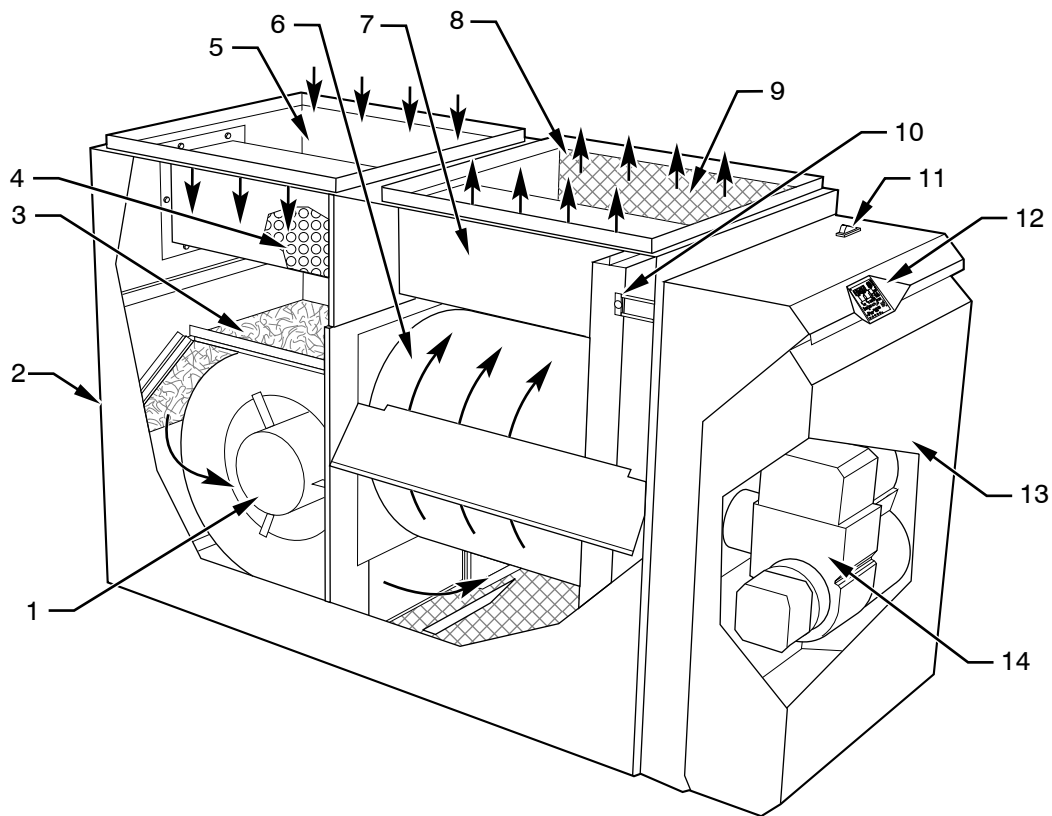
CONTROL CENTER



A06115

OIL BURNER





367RAN

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1. Heavy-duty blower circulates air across the heat exchanger to transfer heat into the home.
2. Access door to air filters and blower.
3. Air filters.
4. Unique silencer system controls combustion noise.
5. Return-air plenum.
6. Stainless steel combustion chamber.
7. Heat exchanger designed and shaped to efficiently transfer heat from furnace into the home.
8. Supply-air plenum.
9. Fully insulated internal walls to minimize heat loss.
10. High limit control to prevent overtemperature.
11. Manual switch to allow user control of constant low-speed blower operation.
12. Adjustable electronic fan timer control (inside) has low voltage electrical terminal strip for easy connection of thermostat, cooling control, electronic air cleaner, and humidifier.
13. Aesthetic removable cover. Hides and protects burner and controls.
14. High-performance oil burner.

CLEARANCE TO COMBUSTIBLES

UNIT APPLICATION		LOW-BOY
SIDES	Furnace	1
	Supply Plenum and Warm-Air Duct Within 6 Ft of Furnace	1
BACK	Service Clearance	19
TOP	Furnace Casing or Plenum	2
	Horizontal Warm-Air Duct Within 6 Ft of Furnace	2
BOTTOM*		0
FLUE PIPE	Horizontally or Below Pipe	4
	Vertically Above Pipe	9
FRONT		8

*Floor may be combustible.

NOTE: Adequate service clearance should be provided over and above these dimensions as required.

367RAN

PHYSICAL DATA

UNIT SIZE	036105			060120		
INPUT (BTUH)	70,000	91,000	105,000	119,000	140,000	154,000
HEATING CAPACITY*	57,000	74,000	85,000	97,000	115,000	126,000
NOZZLE	0.40 – 70A	0.50 – 70W	0.65 – 70W	0.75 – 70B	0.85 – 70W	1.00 – 70W
FIRING RATE (GPH)†	0.50	0.65	0.75	0.85	1.00	1.10
AFUE%	80.5	80.5	80.5	80.0	80.0	80.0
OIL PUMP STAGES/PRESSURE (PSIG)	1/160	1/170	1/135	1/130	1/140	1/125
HEATING TEMP RISE °F	55–85	55–85	55–85	55–85	55–85	55–85
COOLING CFM @ 0.5-IN. WC STATIC PRESSURE	1250	1250	1250	1865	1865	1865
HEATING CFM @ 0.2-IN. WC STATIC PRESSURE	840	1130	1425	1555	1890	2080
RECOMMENDED HEATING BLOWER SPEED	Med–Low	Med–High	High	Med–Low	Med–Low	High
SHIPPING WEIGHT (LB)	235	235	235	260	260	260
BURNER MODEL (3450 RPM)	RIELLO 40–F3	RIELLO 40–F3	RIELLO 40–F3	RIELLO 40–F5	RIELLO 40–F5	RIELLO 40–F5

* Capacity and AFUE in accordance with U.S. Government DOE test procedures.

† For rating purposes only.

Shaded cells are as factory shipped.

PERFORMANCE DATA

UNIT SIZE	036105	060120
DIRECT-DRIVE MOTOR Hp (PSC)	1/3	3/4
MOTOR FULL LOAD AMPS	6.2	9.5
RPM (Nominal) – SPEEDS	1075–4	1075–4
BLOWER WHEEL DIAMETER X WIDTH (In.)	10 x 8	12 x 10
FILTER SIZE (In.) – (Disposable)	(2) 12 x 20 x 1	(2) 16 x 20 x 1

AIR DELIVERY - CFM (WITH FILTERS)

UNIT SIZE	BLOWER MOTOR HP	SPEED	EXTERNAL STATIC PRESSURE (In. wc)							
			0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
036105	1/3 PSC	High	1425	1350	1305	1250	1170	1030	925	805
		Med-High	1130	1045	1000	950	885	820	745	670
		Med-Low	840	810	770	740	685	635	580	500
		Low	725	730	740	745	730	715	690	665
060120	3/4 PSC	High	2080	2040	1965	1865	1700	1575	1475	1335
		Med-High	1890	1860	1770	1675	1550	1450	1330	1215
		Med-Low	1555	1475	1395	1320	1210	1135	1050	940
		Low	1220	1165	1080	1000	925	855	780	655

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ELECTRICAL DATA

UNIT SIZE	036105	060120
UNIT VOLTS-HERTZ – PHASE	115 – 60 – 1	115 – 60 – 1
OPERATING VOLTAGE RANGE (Min-Max)*	104 – 132	104 – 132
MAXIMUM UNIT AMPS	12.2	15.7
MINIMUM WIRE SIZE (AWG)	14	12
MAXIMUM WIRE LENGTH (Ft)†	26	26
MAXIMUM FUSE SIZE OR CKT BKR (Amps)‡	15	20
TRANSFORMER (24v)	40va	40va
EXTERNAL CONTROL POWER AVAILABLE	Heating	40va
	Cooling	30va
AIR CONDITIONING RELAY	Standard	Standard

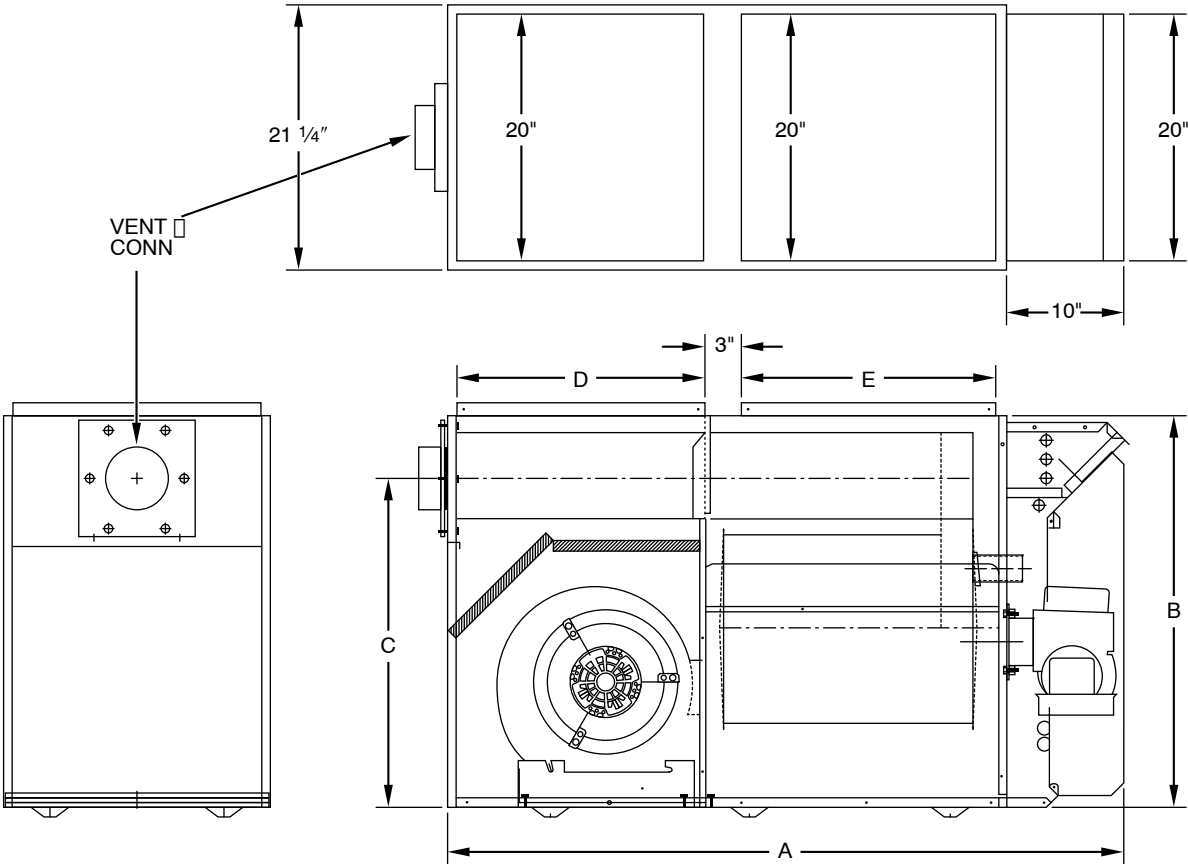
* Permissible limits of the voltage range at which the unit will operate satisfactorily.

† Length is measured one way along wire path between unit and service panel for maximum 2% voltage drop.

‡ Time-delay fuse type is recommended.

DIMENSIONS

367RAN

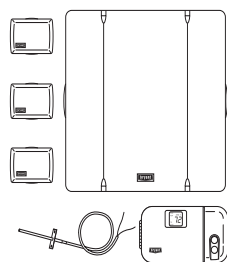


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DIMENSIONS (IN.)

UNIT SIZE	UNIT DIMENSIONS			FLUE HEIGHT	RETURN OPENING	SUPPLY OPENING	VENT CONN
	WIDTH	DEPTH	HEIGHT				
		A	B	C	D	E	
036105	21 – 1/4	53 – 3/4	31 – 1/2	26 – 1/2	20	20	5
060120	21 – 1/4	60 – 5/32	34 – 3/4	28 – 11/32	22	24	6

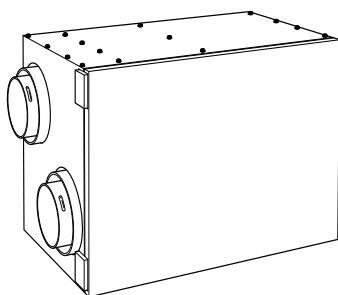
ACCESSORIES



A07042

CONTROLS: THERMOSTATS AND ZONING

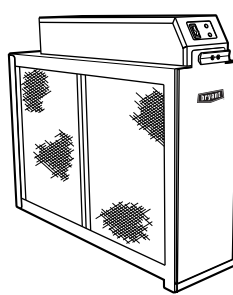
Available in programmable and non-programmable models, Bryant thermostats maintain a constant, comfortable temperature level in the home. For the ultimate in home comfort, Bryant's 2, 4, and 8-zone systems allow temperature control of individual "zones" of the home. This is accomplished through a series of electronic dampers and remote room sensors. The 4-zone system is shown.



A94336

ENERGY/HEAT RECOVERY VENTILATOR

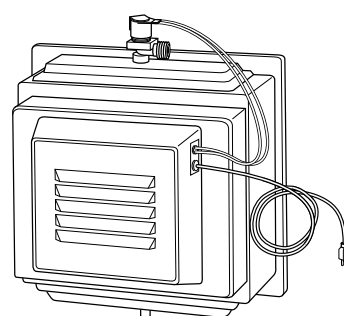
Bryant's energy or heat recovery ventilators exhaust stale indoor air and provide fresh outdoor air to the home while minimizing heat loss and humidity level. Especially useful for today's tighter constructed houses. Energy recovery ventilator is shown.



A07043

ELECTRONIC OR MECHANICAL AIR CLEANER

Cleans the air of smoke, dirt, and many pollens commonly found. Saves decorating and cleaning expenses by keeping carpets, furniture, and drapes cleaner. Electronic air cleaner is shown.



A91365

HUMIDIFIER

By adding moisture to winter-dry air, Bryant humidifier can often improve comfort and keeps woodwork, wallpaper, and paint in better condition. Moisturizing household air also helps to retain normal body heat and provides comfort at lower temperatures.

367RAN

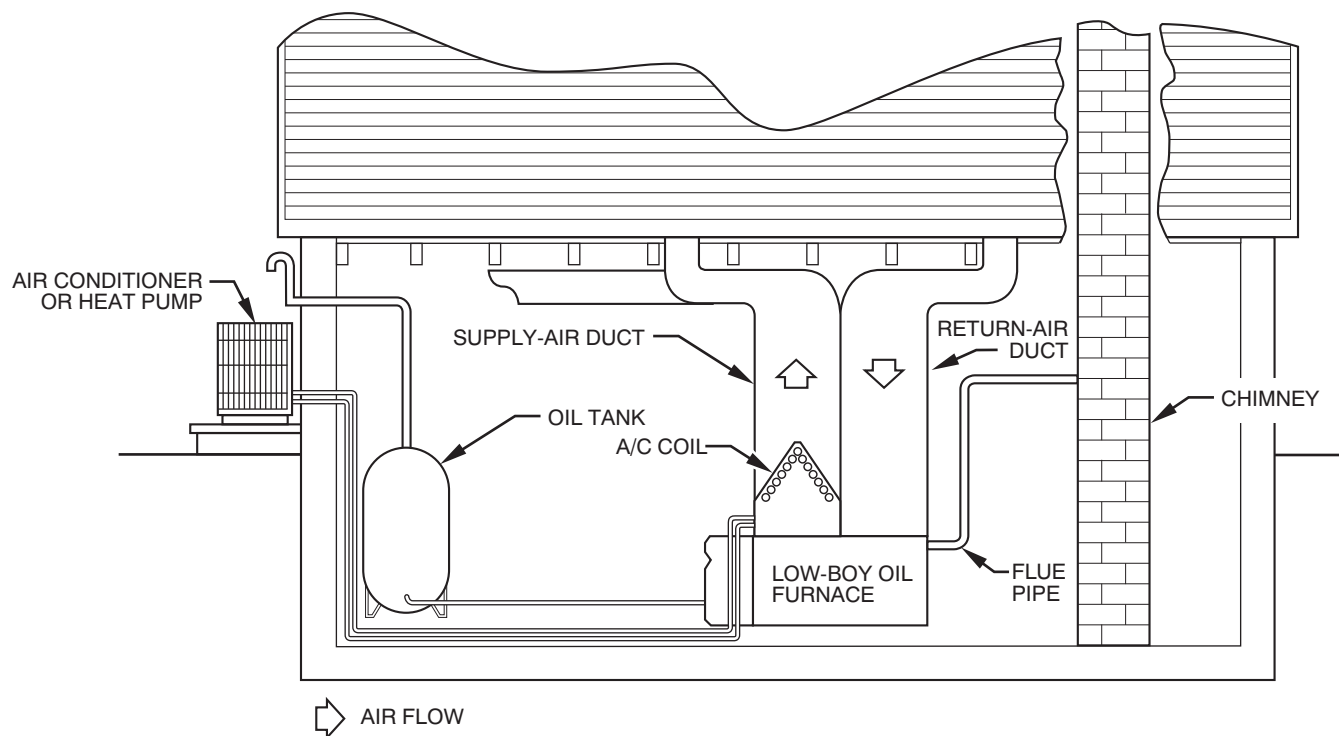
FURNACE ACCESSORIES	
KLABV0201DET	Blocked Vent Shutoff Kit
HYBRID HEAT/THERMIDISTAT CONTROL	
TSTATBBPHH01-B	Hybrid Heat Thermostat, Programmable, Outdoor Temperature Sensor Included
PROGRAMMABLE THERMOSTAT SELECTION	
TSTATBBPAC01-B	Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat/1-Stage Cool
TSTATBBPHP01-B	Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat/1-Stage Cool
TSTATBBP2S01-B	Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat/2-Stage Cool in AC, 3-Stage Heat/2-Stage Cool in HP mode
TSTATBBPF701	Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, Flatstat
TSTATBBPRF01	Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, Wireless Transmitter
NON-PROGRAMMABLE THERMOSTAT SELECTION	
TSTATBBNAC01-C	Thermostat, Auto Changeover, Non-Programmable, °F/°C, 1-Stage Heat/1-Stage Cool
TSTATBBNHP01-C	Thermostat, Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat/1-Stage Cool
TSTATBBN2S01-C	Thermostat, Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat/2-Stage Cool in AC, 3-Stage Heat/2-Stage Cool in HP mode
ZONING CONTROL SELECTION	
ZONEBB2KIT01-B	Comfort Zone II-B - 2 Zone Kit/Temperature and Humidity Control
ZONEBB4KIT01-B	Comfort Zone II-B - 4 Zone Kit/Temperature and Humidity Control
ZONEBB8KIT01-B	Comfort Zone II-B - 8 Zone Kit/Temperature and Humidity Control
HEALTHY HOME SOLUTIONS	
EACBAXBB0014	Electronic Air Cleaner - 120V, 1400 CFM
EACBAXBB0020	Electronic Air Cleaner - 120V, 2000 CFM
EACBAXBB2020	Electronic Air Cleaner - 240V, 2000 CFM
HUMBBSBP2312	Humidifier - 12 g./day, 24V Standard, Small Bypass
HUMBASBP2312	Humidifier - 12 g./day, 24V Automatic, Small Bypass
HUMBBLBP2317	Humidifier - 17 g./day, 24V Standard, Large Bypass
HUMBALBP2317	Humidifier - 17 g./day, 24V Automatic, Large Bypass
HUMBBLFP1318	Humidifier - 18 g./day, 24V Standard, Fan Powered
HUMBALFP1318	Humidifier - 18 g./day, 24V Automatic, Fan Powered
HRVBBSHA1100	Heat Recovery Ventilator - Small Horizontal Unit, 100 CFM
HRVBBSVA1100	Heat Recovery Ventilator - Small Vertical Unit, 100 CFM
HRVBBLHA1150	Heat Recovery Ventilator - Large Horizontal Unit, 150 CFM
HRVBBLHA1250	Heat Recovery Ventilator - Large Horizontal Unit, 250 CFM
HRVBBSVU1150	Heat Recovery Ventilator - Small Vertical Unit, 150 CFM

ACCESSORIES (CONT)

HRVBBSVU1200	Heat Recovery Ventilator – Small Vertical Unit, 200 CFM
HRVBBLVU1150	Heat Recovery Ventilator – Large Vertical Unit, 150 CFM
HRVBBLVU1200	Heat Recovery Ventilator – Large Vertical Unit, 200 CFM
HRVBBLVU1330	Heat Recovery Ventilator – Large Vertical Unit, 330 CFM
ERVBLHU1150	Energy Recovery Ventilator – Large Horizontal Unit, 150 CFM
ERVBLHU1200	Energy Recovery Ventilator – Large Horizontal Unit, 200 CFM
EZXCABBB1016	Media Filter Cabinet – 1600 CFM (Replacement Filter: EXPXXFIL0016)
EZXCABBB1020	Media Filter Cabinet – 2000 CFM (Replacement Filter: EXPXXFIL0020)

TYPICAL INSTALLATION

367RAN



A98010